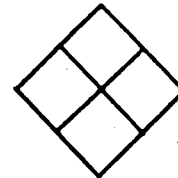


JAN 28 1982

DPM 2481


**hooker Industrial chemicals** DIVISION

 ADAPTED FROM USDL  
 FORM NO. LSB - 005-4

**MATERIAL SAFETY DATA SHEET**
**NFPA Designation**

|  |                            |  |                   |
|--|----------------------------|--|-------------------|
| CHEMICAL NAME:<br><b>Fluorolube® Oils</b>  |                            | PLANT CODE   | MATERIAL CODE NO. |
| MANUFACTURER'S NAME:<br><b>Hooker Chemicals &amp; Plastics Corp.</b>   |                            | EMERGENCY TELEPHONE NO.<br><b>(716) - 278-7777</b>                   |                   |
| ADDRESS: (NUMBER, STREET, CITY, STATE AND ZIP CODE)<br><b>4700 Buffalo Avenue, Niagara Falls, New York 14302</b> |                            |  |                   |
| CHEMICAL NAME AND SYNONYMS<br><b>Fluorolube® Oils</b>  |                            | TRADE NAME<br><b>Fluorolube® Oils</b>                                |                   |
| CHEMICAL FORMULA<br><b>(-CF<sub>2</sub>·CFC1-)x</b>  | MOL. WT.<br><b>500-950</b> | USES<br><b>Lubricant, hydraulic fluid, heat exchange fluid, etc.</b> |                   |

**Physical Properties**

|                               |  |   |           |
|-------------------------------|--|---|-----------|
| BOILING POINT (°F)            | --   | SPECIFIC GRAVITY (H <sub>2</sub> O = 1) | 1.85-1.95 |
| VAPOR PRESSURE (mmHg) @ 100°F | <.00001                                      | PERCENT VOLATILE BY VOLUME (%)          |           |
| VAPOR DENSITY (AIR=1)         | --   | EVAPORATION RATE (= 1)                  |           |
| SOLUBILITY IN WATER           | Insol.                                       |   |           |
| APPEARANCE AND ODOR           | Clear to cloudy, colorless, odorless fluids. |   |           |

**Fire and Explosion Hazard Data**

|   |        |                  |        |                    |
|---|--------|------------------|--------|--------------------|
| FLASH POINT   | METHOD | FLAMMABLE LIMITS |        | AUTOIGNITION TEMP. |
| None °F   |        | UEL --           | LEL -- | None °F            |
| EXTINGUISHING MEDIA --  |        |                  |        |                    |
| SPECIAL FIRE FIGHTING PROCEDURES As appropriate for surrounding fire. |        |                  |        |                    |
| UNUSUAL FIRE AND EXPLOSION HAZARDS --                                 |        |                  |        |                    |

**Reactivity**

INCOMPATIBILITY Can react with sodium or potassium metals, with aluminum or magnesium under pressure, with amines, amine additives, liquid fluorine or liquid chlorine trifluoride.

HAZARDOUS DECOMPOSITION PRODUCTS \_\_\_\_\_

CONDITIONS TO AVOID Avoid temperatures above 500°F; depolymerization starts slowly at 575°F.

Health Related Data

THRESHOLD LIMIT VALUE Not specified.

EFFECTS OF OVEREXPOSURE (SKIN,EYE,INHALATION,ETC.) New material is non-toxic but may cause some irritation of eyes. Material in service may be contaminated with foreign substance which might cause irritation.

EMERGENCY AND FIRST AID PROCEDURES EYES: Flush with water. SKIN: Wash with soap and water. INGESTION: Drink large amount of water; if vomiting occurs, drink more water.

SPECIAL MEDICAL PROCEDURES Get medical attention for all eye exposures. In case of ingestion, administer saline laxative; otherwise, treatment is symptomatic.

Special Protection Information

VENTILATION General

RESPIRATORY (TYPE) --

GLOVES (TYPE) Rubber, neoprene, vinyl, etc.

EYE (TYPE) Chemical safety spectacles.

OTHER \_\_\_\_\_

SPECIAL PRECAUTIONS FOR HANDLING AND STORAGE \_\_\_\_\_

STEPS TO TAKE IN EVENT OF SPILL OR RELEASE Soak up in absorbent medium (diatomaceous earth, etc.); if necessary, apply successive portions to clean up last traces.

WASTE DISPOSAL Incinerate in equipment designed to handle hydrogen chloride and fluorides as combustion products; or consult pollution control authorities regarding burial.

REMARKS \_\_\_\_\_

REFERENCES Specialty Chemicals Division Data Sheet No. 184-D: Fluorolubes®

The information presented herein, while not guaranteed, was prepared by technically knowledgeable personnel and to the best of our knowledge is true and accurate. It is not intended to be all-inclusive and the manner and conditions of use and handling may involve other or additional considerations.

NAME G. W. Darling

LOC. Niagara

DATE April 1972

Revised Nov. 1976